

CITY OF MOUNTAIN VIEW CLASS SPECIFICATION

Position Title: Landfill Systems Technician Senior Landfill Systems Technician	Job Family: 6 6
General Classification: Front-Line	Job Grade: 18 22

Definition: To monitor, maintain and operate the City landfills and to monitor, operate and maintain landfill environmental control systems including: (1) landfill gas extraction and control system (wells, well pumps and header, lateral, air and condensate piping, valves and boxes), (2) flare station, and (3) air compressor stations; to monitor and maintain facilities such as landfill gas migration monitoring probes and perimeter trenches, groundwater monitoring wells and leachate monitoring wells; to maintain the integrity of the final cover (including clay liner), grading and drainage system; and to maintain other sanitary systems as part of the City's Shoreline park and landfill facilities. The purpose of this effort is to ensure continuing regulatory compliance for closed landfills as regulated by: (1) California Integrated Waste Management Board, (2) California Regional Water Quality Control Board, (3) Bay Area Quality Management District, (4) local enforcement agency – Santa Clara County, (5) City of Mountain View Fire Department, (6) California Department of Fish and Game (burrowing owls, a species of special concern), and (7) other regulatory agencies as required.

Distinguishing Characteristics: Landfill Systems Technician: This is the entry-level class in the Landfill Systems Technician series. This class is distinguished from the Senior Landfill Systems Technician by the performance of more routine maintenance tasks and operational duties assigned. Employees at this level are not expected to perform with the same independence of direction and judgment on matters related to established procedures and guidelines as the position allocated to the senior level. Senior employees work under the immediate supervision of the Landfill Systems Specialist and/or designated supervisor while learning job tasks and developing and enhancing job skills. Senior Landfill Systems Technician: This is the advanced journey-level class within the Landfill Systems Technician series. This class is distinguished from the Landfill Systems Technician by the assignment of a full range of advanced journey-level duties. Employees at this level receive only occasional instruction or assistance from the Specialist and/or supervisor as new or unusual situations arise and are fully aware of the operating procedures and policies within the work unit. Positions in this class are flexibly staffed and are normally filled by advancement from the Landfill Systems Technician level once the person is evaluated as being competent and meeting standards in all categories evaluated.

Supervision Received and Exercised: Landfill Systems Technician: Receives general supervision from the assigned supervisor and/or the Specialist and may provide technical assistance to help other landfill personnel. Senior Landfill Systems Technician: Receives general supervision from the assigned Specialist and/or

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supervisor; provides general and technical assistance to the Landfill Systems Technician and other personnel as required.

Examples of Duties: Duties may include, but are not limited to, the following:

Landfill Systems Technician:

1. Operate and maintain landfill gas extraction system (wells, pumps, gas collection pipelines, leachate/condensate collection system and compressed air distribution systems).
2. Monitor and record: (1) landfill gas well information and adjust wells per guidelines when necessary, (2) methane migration probes, and (3) leachate wells.
3. Operate, monitor and maintain flare station and compressor stations (may include duty program assignment); make necessary equipment repairs and make manual and/or electronic adjustment; calibrate and maintain all landfill gas, leachate and lower explosive limit (LEL) structure monitoring equipment.
4. Conduct monthly landfill surface inspection for gas emissions and safety issues over entire landfill site, identifying problems and assisting with developing solutions.
5. Operate heavy equipment for cap repairs and a variety of assorted and specialized hand tools needed for landfill gas, leachate/condensate and air line systems repairs.
6. Perform tasks associated with postclosure maintenance requirements of regulatory agencies such as maintenance of the earthen seal (landfill cap), pumping storm water from ponded areas and other duties associated with preventing LFG and leachate from escaping the landfill.
7. Assist with sophisticated electrical and electronic components operations and repairs under direction of higher-level technician.
8. Maintain inventories of equipment parts and assist with reordering as necessary.
9. Perform other duties as assigned.

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Senior Landfill Systems Technician: In addition to the requirements for Landfill Systems Technician:

10. Work closely with engineering and environmental compliance staff to review plans and specifications impacting landfill surface and various landfill systems throughout Shoreline park.
11. Monitor gas supply and pressure with telemetry (SCADA) equipment; adjust pumps and valves to maintain proper pressure.
12. Ability to operate computers for data input and retrieval, making inquiries and other related landfill functions.
13. Provide technical assistance to Landfill Systems Technicians and other landfill personnel, as necessary.
14. Identify operational and safety hazards and take the necessary action to ensure these hazards are mitigated.
15. Assist Specialist/supervisor with safety meetings.
16. Assist Specialist with GPS operations.
17. Perform related duties as assigned.

Minimum Qualifications:

Landfill Systems Technician:

Knowledge of: Principles of gas and/or water collection and distribution, air quality monitoring systems, and occupational hazards and related safety precautions associated with landfill operations and practices; air quality, groundwater and leachate sampling techniques; techniques and procedures for maintaining and calibrating air quality monitoring system; and principles and practices of safety related to areas of assignment. Familiarity with standard methods associated with obtaining and collecting gas, liquid and solid samples.

Ability to: Operate and maintain air quality monitoring and related equipment; operate heavy equipment in the performance of assigned duties, such as backhoe, sheep's foot roller, tamper, etc.; maintain and operate mechanical air quality, leachate and groundwater monitoring equipment; ensure proper use and care of tools, codes, policies, regulations and procedures related to the operation of the air quality monitoring, leachate collection and groundwater monitoring; communicate

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clearly and concisely; and establish and maintain effective working relationships with those contacted in the course of work.

Senior Landfill Systems Technician (in addition to the requirements for Landfill Systems Technician):

Knowledge of: Principles and practices of maintenance and repair activities related to landfill assignments; pumps and valves used in landfill operations; techniques and procedures in basic carpentry, metal, electrical and mechanical work; full knowledge and understanding of City's landfill operation and related monitoring and regulating devices; techniques and procedures for monitoring and regulating the landfill operation and maintaining the integrity of the clay cap; section policies, standards and procedures pertaining to maintaining an adequate, safe landfill operation; techniques and procedures for maintaining and performing repair on electrical control systems, mechanical control systems, hydraulic control valves, pump control valves and related instruments; trenching and shoring safety practices and recordkeeping requirements and procedures related to landfill operations and postclosure maintenance.

Ability to: Monitor and regulate a landfill gas leachate and groundwater system; perform preventive maintenance and routine repairs on electrical, mechanical and hydraulic control systems, pumps and related instruments and controls. Assign and review the work of others; operate heavy equipment skillfully and safely; perform complex landfill closure duties; perform heavy manual labor; understand and follow oral and written instructions; establish and maintain effective working relationships with those contacted in the course of work; and learn to operate new and more complex sophisticated electronic equipment and systems, including SCADA, GPS, microturbines, etc.

Experience and Training Guidelines: Any combination of experience and training will qualify if it provides for the required knowledge and abilities.

Landfill Systems Technician

Recommended: Two years' experience in the maintenance and operation of gas and/or wastewater collection and distribution systems, preferably with specialized mechanical air quality testing/monitoring equipment experience. Training equivalent to the completion of the 12th grade supplemented by courses in air quality standards and health and safety regulations.

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Senior Landfill Systems Technician (in addition to Landfill Systems Technician):

Recommended: A minimum of two years of increasingly responsible experience performing duties equivalent to those performed by a Landfill Systems Technician within the City of Mountain View.

Required Licenses or Certificates: Landfill Systems Technician: Possession of a Class C California driver's license. Possession of a Competent Person certification and a HAZWOPER certificate within six months of appointment. Senior Landfill Systems Technician: Possession of a Class C California driver's license. Possession of a Competent Person certification and a HAZWOPER certificate at time of appointment. Certified Landfill Technical Associate Certificate (SWANA) is required within six months of appointment. Training in team building and/or supervision is required within six months of appointment.

Working Conditions: Preemployment, hearing conservation, periodic respiratory and medical surveillance examinations may be required for this classification.

Established October 1991

Revised July 2004

CLASS SPECS

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